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Nomenclatural notes on African Papilionidae (Lepidoptera)

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Abstract: Nomenclatural problems in African taxa of family Papilionidae, grouped into categories of similar cases, are clarified. Three new synonyms are proposed and one well-known species name, *Papilio dardanus*, is attributed to the correct author.

Keywords: *Graphium*, homonym, ICZN Code, *Papilio*, synonym, *Zerynthia*

非洲凤蝶科命名注释（鳞翅目）

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摘要：对非洲凤蝶科的分类单元所存在的命名学问题进行了澄清，并将这些问题按照相似案例归类。提出了三个新的异名，并将一个广为人知的物种非洲白凤蝶 *Papilio dardanus* 归于正确的命名者。

关键词：青凤蝶属，同名，ICZN 法规，凤蝶属，异名，新种，锯凤蝶属

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Introduction

A number of nomenclatural issues in African Papilionidae have been found, which are enumerated here with proposed solutions, and are grouped into sections by case similarity.

Nomenclatural Notes

1. Junior Primary Homonyms conserved by the ICZN

Rarely the ICZN Commission may decide to use its plenary powers to permanently overturn primary homonymy in order to conserve a junior name currently used as valid. An Opinion (ICZN 2013) was recently published on one such case in Papilionidae.

1.1. ***Papilio hesperus*** Westwood, 1843: 189, pl. 48, fig. Currently regarded as a valid species of *Papilio* Linnaeus, 1758 (Ackery *et al*. 1995: 149).

A junior primary homonym of *Papilio hesperus* Fabricius, 1793, currently regarded as a senior subjective synonym of *Euryphura chalcis* (C. Felder & R. Felder, 1860) – Nymphalidae: Limenitidinae (Larsen *et al*. 2011: 190-196).

Papilio hesperus Fabricius, 1793 was suppressed by the ICZN Commission under Opinion 2319 (*Bull. zool. Nomencl*. 70(2): 127-128; 2013) for the purposes of both the Principle of Priority and the Principle of Homonymy, and ***Papilio hesperus* Westwood, 1843** was conserved.

2. Junior Primary Homonyms still in use despite replacement before 2000

One name which was replaced before the year 2000 due to primary homonymy is recognised as still being treated as the valid name for a species-group taxon despite being permanently invalid.

2.1. ***Papilio nobilis*** Rogenhofer, 1891: 563. Currently regarded as a valid species of *Papilio* Linnaeus, 1758 (Ackery *et al*. 1995: 153).

A junior primary homonym of *Papilio nobilis* Cramer, 1777 (currently *Myscelus nobilis* [Cramer, 1777] – Hesperiidae: Pyrrhopyginae) (Mielke 2004: 25). *Papilio nobilis* Rogenhofer, 1891 was declared a junior homonym by Koçak (1983b: 38) and substituted by its oldest available junior subjective synonym, *Papilio pringlei* Sharpe, 1894, which rendered the name *Papilio nobilis* Rogenhofer, 1891 permanently invalid regardless of subsequent usage (Art. 57.2 of the Code [ICZN] 1999). Thus, the valid name for this species is ***Papilio pringlei*** Sharpe, 1894. The subspecies of this species are thus:

Papilio pringlei pringlei Sharpe, 1894

Papilio pringlei didingensis Carpenter, 1928

Papilio pringlei crippsianus Stoneham, 1936

Papilio pringlei mpanda Kielland, 1990

3. Names incorrectly treated as Junior Primary Homonyms

In this section four species group names previously declared to be junior primary homonyms are shown to have been incorrectly identified as such. The original taxon name is thus available, and any replacement name is a junior objective synonym.

3.1. ***Papilio sjöstedti*** [sic] var. ***atavus*** Le Cerf, 1912. Currently regarded as a valid subspecies of *Papilio fuelleborni* Karsch, 1900 (Ackery *et al*. 1995: 149), or as a valid subspecies of *Papilio* (*Druryia*) *sjoestedti* Aurivillius, 1908 (Smith *et al*. 2008: 1359).

Incorrectly replaced with *Princeps fuelleborni neocesa* by Kemal & Koçak (2005: 10) as a junior primary homonym of *Papilio polytes atavus* Rothschild, 1895. However, the name *atavus* Rothschild, 1895 is

infrasubspecific, described as a female form of *Papilio polytes perversus* Rothschild, 1895, so is not an available name for the purpose of homonymy (Article 54.1 of the Code [ICZN 1999]). The name *Papilio fuelleborni neocesa* Kemal & Koçak, 2005 is thus a junior objective synonym of ***Papilio sjoestedti atavus*** Le Cerf, 1912 as established by Smith *et al*. (2008), who also invoked ICZN Code article 33.2.3.1, and similarly article 33.3.1, in order to confirm the validity of the spelling *Papilio sjoestedti* Aurivillius, 1908.

3.2. ***Papilio disparilis*** var. ***nana*** Oberthür, 1879: 54. Currently regarded as a valid subspecies of *Papilio phorbanta* Linnaeus, 1771 (Ackery *et al*. 1995: 155).

Ackery *et al*. (1995: 155) also stated that the name *nana* is invalid as a junior primary homonym of *Papilio nanus* Herbst (1804) (currently regarded as a junior subjective synonym of *Agriades* [*Vacciniina*] *optilete* [Knoch, 1781] – Lycaenidae: Polyommatinae). However, Nana (feminine noun) is 'a nymph, daughter of Sangarius', and nānus (masculine noun) is 'a dwarf'; the feminine noun nāna means 'a female dwarf', thus the names are not homonymous and ***Papilio disparilis*** var. ***nana*** Oberthür, 1879 remains an available name. The taxon names *nanus* Herbst, 1804 and *nana* Oberthür, 1879 are both nouns in apposition under ICZN Code Article 31.2.2.

3.3. ***Papilio commixta*** Aurivillius, 1908: 12. Currently regarded as a valid subspecies of *Papilio rex* Oberthür, 1886 (Ackery *et al*. 1995: 156).

Incorrectly replaced with *Papilio rex* var. *alinderi* Bryk, 1928 by Kemal & Koçak (2005: 11) as a junior primary homonym of *Papilio clytia commixtus* Rothschild, 1895. However, the name *commixtus* Rothschild, 1895 is infrasubspecific, described as an aberration of *Papilio clytia clytia* Linnaeus, 1758, so is not an available name for the purpose of homonymy (Article 54.1 of the Code [ICZN 1999]). The name *Papilio rex alinderi* Bryk, 1928 is thus a junior subjective synonym of ***Papilio rex commixta*** Aurivillius, 1908 as established by Ackery *et al*. 1995: 53.

3.4. ***Papilio charopus juventus*** Le Cerf, 1924: 385. Currently regarded as a valid subspecies of *Papilio charopus* Westwood, 1843 (D'Abrera 1980).

Ackery *et al*. (1995: 140) stated that the name *juventus* Le Cerf, 1924 is invalid as a junior primary homonym of *Papilio juventa* Cramer, 1777 (currently *Ideopsis juventa* [Cramer, 1777] – Nymphalidae: Danainae) (Ackery & Vane-Wright 1984: 186) and used the name *montuosus* Joicey & Talbot, 1927 as valid for the subspecies. However, both *juventus* and *juventa* are feminine nouns meaning 'youth' or 'goddess of youth' and thus are synonymous but not homonymous and the name *Papilio charopus montuosus* Joicey & Talbot, 1927 is a junior subjective synonym of ***Papilio charopus juventus*** Le Cerf, 1924.

4. Seniority of Homonyms and Synonyms

In many situations prevailing usage clauses were introduced in the current Code (ICZN 1999) to ensure stability of nomenclature, but there are no such clauses covering the three names in this section. Thus, despite some names being well known, the first published name becomes the valid taxon name. It is possible for applications to be made to the ICZN Commission to reverse priority, but this is only likely to be approved for very well-known names. In one case, where the name of the species with several subspecies is identified as a junior synonym, the currently recognised subspecies are listed with the valid species name.

4.1. ***Papilio phorcas*** Cramer, 1775: 4. Currently regarded as a valid species of *Papilio* Linnaeus, 1758 (Ackery *et al*. 1995: 155).

Papilio phorcas Cramer was published on [31 December] 1775 (ICZN 1958: 5), whereas *Papilio doreus* Fabricius was published on or before [30 April] 1775 (Evenhuis 1997: 245). The latter name for the same taxon has priority, thus the valid name for the species is ***Papilio doreus*** Fabricius, 1775 and *Papilio phorcas* Cramer, 1775 is a junior subjective synonym (**new synonym**).

The subspecies of this species are thus:

Papilio doreus doreus Fabricius, 1775

Papilio doreus ansorgei Rothschild, 1896

Papilio doreus congoanus Rothschild, 1896

Papilio doreus nyikanus Rothschild & Jordan, 1903

Papilio doreus ruscoei Krüger, 1928

Papilio doreus sudanicola Storace, 1965

Papilio doreus tenuifasciatus Kielland, 1990

Papilio doreus bardamu Canu, 1994

4.2. ***Papilio grosesmithi*** Rothschild, 1926: 113. Currently regarded as a valid species of *Papilio* Linnaeus, 1758 (Ackery *et al*. 1995: 149).

Le Cerf (1924: 388) published the name '*P. grose-smithi* Roths. f. (? an s.-sp.) *praeses* nova', mentioning that Rothschild had '...distinguée et décrite assez récemment...' the species *Papilio grose-smithi* [sic], but the Rothschild description was only actually published almost 18 months later in 1926. *Papilio grosesmithi* Le Cerf must be regarded as a *nomen nudum* since Article 12.1 was not fulfilled, whereas the name ***Papilio praeses*** Le Cerf, 1924 is available and has priority over *Papilio grosesmithi* Rothschild, 1926 as the valid name for the species. The latter name is thus a junior subjective synonym (**new synonym**).

4.3. ***Zerynthia rumina africana*** Stichel, 1907: 12. Currently regarded as a valid subspecies of *Zerynthia rumina* (Linnaeus, 1758) (Bollino & Racheli 2012: 49).

Zerynthia rumina africana Stichel was published in 1907, whereas [*Thais*] *Rumina* var. *Canteneri* C. Felder & R. Felder was published in 1864. The latter name for the same taxon has priority despite Bollino & Racheli (2012: 50) incorrectly stating *africana* has priority due to prevailing usage; thus, the valid name for the taxon is ***Zerynthia rumina canteneri*** (C. Felder & R. Felder, 1864) and *Zerynthia rumina africana* Stichel, 1907 is a junior subjective synonym of *canteneri* (C. Felder & R. Felder, 1864) **(new synonym)**.

5. Authorship of names

One well known species is generally attributed to the incorrect author.

Opinion 620 (ICZN 1962) validated the name *Papilio dardanus* Brown, 1776 and placed it on the Official List of Specific Names in Zoology with Name Number 1779. According to ICZN Code Art. 80.6.1 'A name entered in an Official List is an available name.'

Authorship of the name *Papilio dardanus* is actually attributable to Yeats in Brown, 1776, as stated by Brown in the Preface to the work (Brown, 1776: [8]). ICZN Code Article 50.1.1 clearly applies here, so the correct citation of the species name is ***Papilio dardanus*** **Yeats, 1776**.

Given that Brown (1776) clearly attributed authorship of the name *dardanus* to Yeats, an Official Correction of this error in Opinion 620 should be requested from the ICZN Commission under Article 80.4.

6. Unavailable names

One species group name is recognised as unavailable because it was introduced as an infrasubspecific name.

6.1. ***Papilio dardanus antinorii*** sottorazza ***figinii*** Storace, 1962: 2. Currently regarded as a valid subspecies of *Papilio dardanus* Brown [sic], 1776 (citing Ackery *et al*. 1995: 143).

However, *figinii* Storace was clearly introduced as an infrasubspecific name and is thus unavailable. Currently there is no available name for this taxon.

7. Nomina Dubia

One name is identified as a *nomen dubium* due to issues preventing correct identification of the taxon described.

7.1. ***Zelima orestes*** Fabricius, 1938: 55.

A *nomen dubium*, described from 'Guinea', and which appears to represent a mimetic tailless African species of *Graphium* Scopoli, 1777. A junior secondary homonym of *Papilio orestes* Fabricius, 1793 (currently regarded as a subjective synonym of *Graphium nomius* [Esper, [1799]] (Bryk 1930: 249)), itself a junior primary homonym of *Papilio orestes* Meerburgh, 1777 (currently regarded as a junior subjective synonym of *Heraclides androgeus* [Cramer, 1775] (Lamas 2004: 94)).

8. Invalid names still in common use

Below is a list of seven commonly used names that are invalid because they are junior primary homonyms that were replaced some time ago or are junior synonyms. Each name in the list is followed by the reason why it is invalid and the valid taxon name. Unfortunately, many of these names have been perpetuated in modern treatments.

aethiops Rothschild & Jordan, 1905 (junior homonym), and *aethiopsis* Hancock, 1983 (junior synonym), correct name ***microps*** Storace, 1951 (species of *Papilio*)

barnsi Gabriel, 1945 (junior homonym), correct name ***gabrieli*** Gauthier, 1984 (subspecies of *Papilio echerioides*)

bromius Doubleday, 1845 (junior homonym), correct name ***nurettini*** Koçak, 1983a (subspecies of *Papilio chrapkowskoides*)

crocea Storace, 1955 (junior homonym), correct name ***neocrocea*** Koçak, 1983a (subspecies of *Papilio lormieri*)

interjecta van Someren, 1960 (junior homonym), correct name ***interjectana*** Vane-Wright, *in* Ackery *et al*., 1995 (species of *Papilio*)

odin Strand, 1910 (junior homonym), correct name ***schubotzi*** Schultze, 1913 (species of *Graphium*)

pylades Fabricius, 1793 (junior homonym), correct name ***angolanus*** Goeze, 1779 (species of *Graphium*)

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